

MESA[®] SOLE Outdoor Electronic Enclosure

Description and Installation

Part Number 631-205-105
Version C, August 2009

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MESA® SOLE OUTDOOR ELECTRONIC ENCLOSURE DESCRIPTION AND INSTALLATION

1. ABOUT THIS DOCUMENT

- 1.1 **Purpose** - This practice provides a description and installation instructions for the MESA® SOLE (Modular Electronic Sealed Architecture) cabinet. See Fig. 1.
- 1.2 **Reason For Reissue** - Practice revised to add additional clarification to Fig. 9, Concrete Pad Template Diagram.
- 1.3 **Information Not Provided in this Practice** - Refer to other local practices or building codes as applicable for the correct methods, tools and materials to be used in performing procedures not specifically described in this document.

Note: The information contained in this practice is subject to change without notice and may not be suitable for all applications.

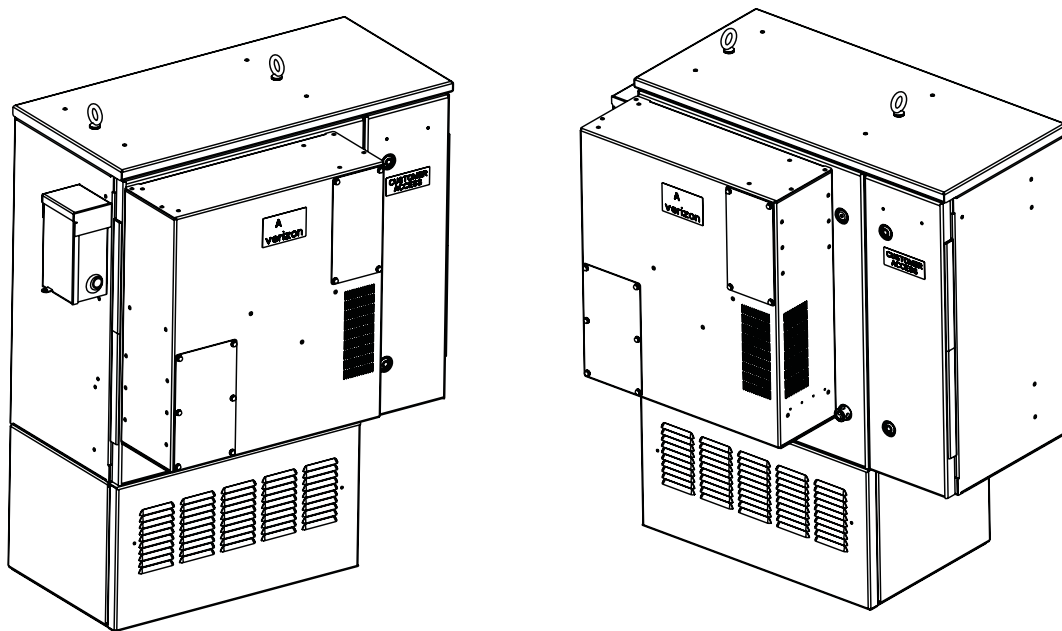


Fig. 1 : MESA® SOLE

2. CABINET DESCRIPTION

2.1 Application

2.1.1 The MESA[®] SOLE is part of the MESA[®] line of Modular Electronic Sealed Architecture cabinets. The MESA[®] SOLE cabinet provides a flexible, economical housing within the network infrastructure. The cabinet is deployed in limited size and remote outside plant applications.

2.1.2 The cabinets offer a compact solution for housing electronics, protection, distribution, and battery backup.

Note: All power and alarm cables are provided with the MESA[®] SOLE enclosures.

2.1.3 The compact size of the MESA[®] SOLE allows it to be wall, pad, or pole mounted. For applications where the cabinet is to be pad mounted, the optional base chamber must be ordered.

2.1.4 The MESA[®] SOLE cabinet provides a sealed internal environment where outside air and humidity are totally isolated from the electronic equipment. Refer to Fig. 2 for an exploded view of the cabinet.

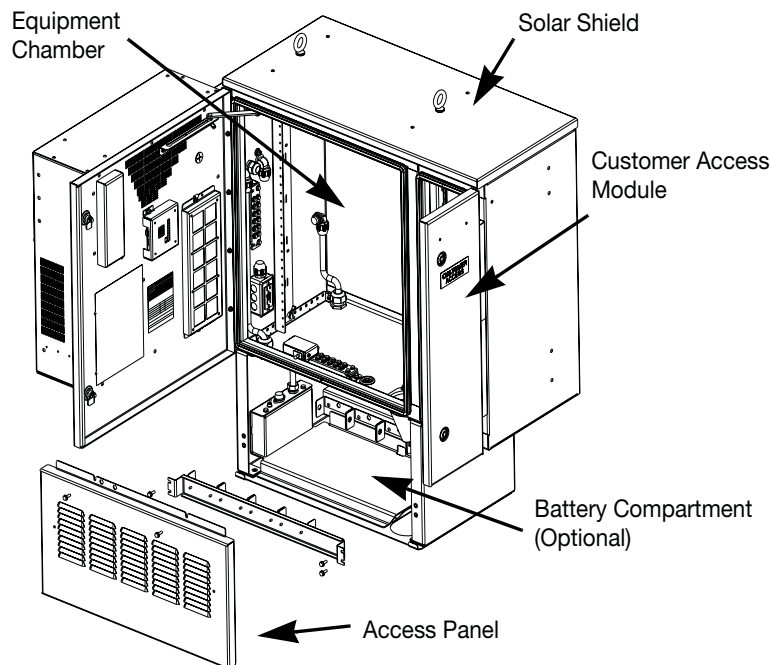


Fig. 2 : MESA[®] SOLE Exploded View

2.1.5 MESA[®] SOLE Ordering Guide:

Refer to Table A on page 22 for a list of available features, accessories, and replacement parts.

2.2 Physical Specifications

The MESA[®] SOLE is a welded 1/8-in. and .090 thick aluminum structure protected with an off-white multistage dry powder polyester paint finish for maximum durability and performance.

The cabinet has two lifting eyes at the top that allow the enclosure to be lifted into mounting position using lifting equipment.

The cabinet consists of:

- an equipment chamber that houses the electronics,
- an optional vented base chamber for housing batteries, and
- an optional side mountable Customer Access Module.

2.3 Standards Compliance

The MESA[®] SOLE is designed to meet the following standards:

- Bellcore, GR-63-CORE, *Network Equipment - Building System (NEBS) Requirements: Physical Protection*, Issue 1, October 1995.
- Bellcore, GR-487-CORE, *Generic Requirements for Electronic Equipment Cabinets*, Issue 2, March 2000.
Stem meets Seismic, Zone 4 requirements.
- Bellcore, GR-1089-CORE, *EMC and Electrical Safety Generic Criteria for Network Communications Equipment*, Issue 1 November 1997.
- NEC, National Electrical Code.

2.4 Cabinet Dimensions

Height:

- Without battery base: 33.02" (83.87 cm)
- Battery base for 60 Amp hr. batteries: 14.98" (38.05 cm)
- Total height with battery base installed: 48.00" (121.92 cm)

Depth: 26.53" (67.39 cm)

Width: 33.13" (84.14 cm without Customer Access Module)
43.13" (109.80 cm with Customer Access Module)

Weight of Cabinet with Customer Access Module and Battery Base:

- Empty cabinet approximately 309 lbs. (140.16 kg).
 - For equipment add approximately 125 lbs. (56.70 kg).
 - For batteries (60Ahr) add approximately 200 lbs. (90.72 kg).

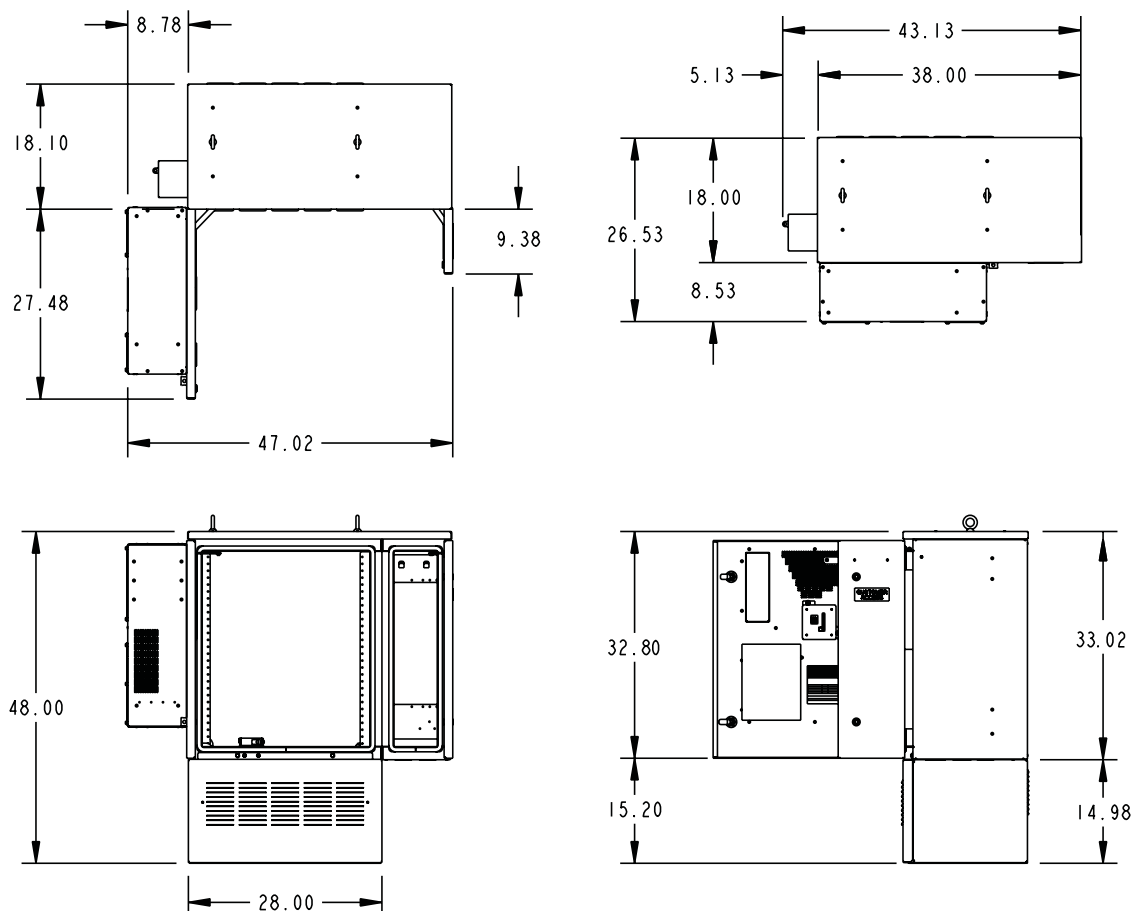


Fig. 3 : MESA® SOLE Dimensions

2.5 Cabinet Features

2.5.1 Cabinet Access - The MESA® SOLE has an environmentally sealed door to access the equipment chamber.

The cabinet has two 1/4-turn fasteners securing the door. The 1/4-turn fasteners are opened with a T-Handle tamper-resistant wrench, 5/16-inch hex/pin tool supplied with the cabinet.

- For additional security, a padlock can be installed on the lower 1/4-turn security bolt.

The door has an intrusion alarm switch, and self-locking wind latches to secure the door in the open position during installation or maintenance.

2.5.2 Mounting options - The cabinet is designed to be wall, pole, or pad mounted.

The cabinet shall be lifted into place using the lifting eyes provided on the top of the cabinet.

When pad mounting,

- A rubber pad will be provided to isolate the cabinet from the concrete pad.
- A universal pad-mounting template can be ordered as an option.

2.5.3 Equipment Rails - The equipment chamber is equipped with 23" (58.42 cm) wide equipment rails. The equipment rails are zinc-dichromate conductive steel with 12-24 tapped holes on 1 inch (2.54 cm) centers.

Each equipment mounting rail is bonded by contact through the cabinet chassis to the Master Ground Bar (MGB).

The equipment mounting rails are designed to accept standard 12 inch (30.48 cm) deep with 5-in. (12.7 cm) front offset mounted equipment.

2.5.4 Vertical Rack space - There is 25 inches (63.50 cm) of unobstructed vertical mounting space in the equipment chamber door opening. A total of 28 inches (71.12 cm) of rack space is available.

2.5.5 Environmental Control - The cabinet is equipped with a door mounted heat exchanger, which is capable of removing 650 Watts of heat at 65°.

2.5.6 Cable Entry - Cable entry is through one 4-in. (10.16 cm) inside diameter cable cone, one 1-inch (2.54 cm) grommeted opening, and one 3/4" opening.

2.5.7 Grounding - The equipment chamber contains two 6-position, 2-hole ground bars. One ground bar is isolated from the cabinet frame.

2.5.8 Optional Battery Compartment - The MESA® SOLE cabinet can be ordered with an optional ventilated battery compartment.

- A battery heater pad is factory installed to protect batteries in colder environments.

2.5.9 AC Power Box - The MESA® SOLE cabinet is equipped with a 2-position load center to accommodate customer-supplied AC power.

2.5.10 AC Convenience Outlet - Ground Circuit Fault Interrupter (GFCI) protected 15 Amp outlet is provided for use by field personnel for installation and maintenance operations. The outlet is located in the equipment chamber.

- 2.5.11 **Optional Customer Access Module** - The MESA[®] SOLE cabinet can be ordered with an optional access module mounted on the right side of the cabinet. This module houses a 10-position ground bar and has mounting positions for customer equipment. This module is sealed from the outside environment by a right-hand hinged door, which is held in place by two 1/4-turn fasteners. The 1/4-turn fasteners are opened using a 216 hex tool.

3. OPENING AND CLOSING DOORS

3.0.1 Purpose - This section describes the locking mechanisms on the doors of the cabinet and explains how to open and close the doors. Refer to this section whenever instructed to open or close cabinet doors.

3.0.2 Lock Type - The MESA® SOLE cabinet has two $\frac{1}{4}$ -turn fasteners securing the door. The $\frac{1}{4}$ -turn fasteners are opened with a T-Handle tamper-resistant wrench, $\frac{5}{16}$ -inch hex/pin tool supplied with the cabinet.

Note: For additional security, a padlock can be installed on the bottom $\frac{1}{4}$ -turn security bolt. (shown in Fig. 4).

3.0.3 Opening a Door - Perform the following steps to open a door:

Step 1: If required, use a key to unlock the door according to local practices.

Step 2: Place the tamper-resistant wrench onto a security bolt.

Step 3: Rotate the wrench one-quarter turn (90 degrees) to toward the top or bottom of the cabinet.

Note: A $\frac{1}{4}$ turn is LEFT HAND if it is on the LH SIDE of the door. To close the $\frac{1}{4}$ turn, rotation is to the LEFT. The hinge is to the RIGHT.

A $\frac{1}{4}$ turn is RIGHT HAND if it is on the RH SIDE of the door. To close the $\frac{1}{4}$ turn, rotation is to the RIGHT. The hinge is to the LEFT.



Fig. 4 : $\frac{1}{4}$ -turn security bolt

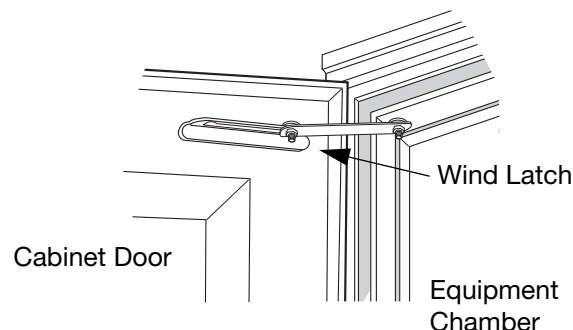


Fig. 5 : Lifting Up on Slotted Bar to Release Wind Latch

Step 4: As each door is opened, secure the wind latch (Fig. 5) by opening the door wide enough so the shoulder engages the hole and slot at the end of the bar.

3.0.4 To close a door - Perform the following steps to close a door:

Step 1: Lift the slotted bar on the wind latch to release the shoulder from the hole and slot. (See Fig. 5.).

Step 2: Close the door.

Step 3: While holding the door closed, rotate each $\frac{1}{4}$ -turn security bolt one-quarter turn (90 degrees) toward top or bottom of the cabinet.

4. INSTALLATION CONSIDERATIONS

4.0.1 The MESA[®] SOLE cabinet can be wall, pole, or pad mounted.

4.1 Site Selection

4.1.1 Consider the following when deciding on the location for the MESA[®] SOLE cabinet:

- Before construction begins, obtain the rights-of-way from landowners, and other permits or approvals from public authorities. Place cabinets in servitudes, on dedicated (recorded) easements, or on property owned by the company. Avoid any unrecorded easements. Use public safety road and street rights-of-way only when there is enough space to place the closure and provide safe working conditions.
- The cabinet should be easily accessible with adequate parking to ensure safety for people and vehicles. Place the cabinet where it will not create a visual or physical obstruction to either vehicles or pedestrians.
- Select locations that will minimize accidental or intentional vandalism. Consider the use of protective posts when the cabinet is located near parking areas where vehicles could back into the cabinet. Do not place the cabinet in ditches or areas subject to flooding.
- Place the cabinet at least 42 inches (106.68 cm) away from any obstruction, fence, hedge, etc.
- If an area is subject to frost, choose a site free of heaving.
- Always locate the cabinet on a site above the 100-year flood plain, and which is not subject to water runoff or flash flooding during heavy rains.

4.2 Unpacking the Cabinet

4.2.1 MESA[®] SOLE cabinet is shipped on wooden pallets with plastic covering to protect the cabinet during shipment.



DANGER

DANGER: A CABINET NOT SECURED TO A PALLET OR PAD IS UNSTABLE AND COULD TIP OVER CAUSING SERIOUS INJURY OR DAMAGE TO EQUIPMENT.

*** Do not install any equipment until the cabinet is secured to its concrete foundation pad.**

*** Do not open any doors on the cabinet unless the cabinet is secured to the shipping pallet or concrete foundation pad. An unsecured cabinet is unstable and may tip over.**

ALERT

TO AVOID EQUIPMENT DAMAGE:

- * DO NOT REMOVE - pallet and plastic covering from the cabinet until the cabinet is transported to the installation site.
- * Always ship and store the MESA® SOLE cabinet(s) on the pallet in an upright position to avoid possible damage to the internal equipment.
- * Until the cabinet is turned up for service, the desiccant shipped with the cabinet must remain in the cabinet to retard moisture condensation.
- * DO NOT REMOVE - battery drawer covers until the cabinet is bolted securely to the pad.
- * DO NOT INSTALL OR STORE - batteries in cabinet(s) prior to cabinet installation.
- * If the external packaging appears excessively damaged, do not accept the unit from the shipper as interior damage may not be apparent.
- * CAREFULLY remove all packaging material from around the cabinet and pallet. Dispose of the packaging according to local practices. DO NOT REMOVE THE CABINET FROM ITS PALLET AT THIS TIME.

Note: When ordered, batteries are shipped on separate pallets from the cabinet.

- 4.2.2 Inspect any moving parts, mounting hardware, connectors, and electronic equipment. If there is any damage, notify your supervisor for further instructions.
- 4.2.3 Check the packing slip to make sure all components ordered were received. If there are missing components, notify your supervisor for further instructions.
- 4.2.4 Carefully remove all packaging material from around the pallet. Dispose of packaging according to local practices. DO NOT REMOVE THE CABINET FROM ITS PALLET AT THIS TIME.

4.3 Preparing the Cabinet

- Step 1:** If not done already, open the front door of the equipment chamber.
- Step 2:** Remove the mounting bolts from the front equipment base cover and remove the cover. Set the cover safely aside for later replacement.
- Step 3:** A gasket is installed on the concrete pad to prevent corrosion between the concrete pad and the cabinet mounting surfaces (Fig. 6).
- Step 4:** Clean all debris from the concrete pad.
- Step 5:** Remove the rectangular rubber gasket from the splice chamber.

Step 6: Place the gasket into position on the foundation pad so that the gasket will lie underneath the bottom of the cabinet when it is placed. The gasket should lie so the cutouts are in position around the conduit openings, and over the anchor bolts.

Step 7: The front chamber door must stay open and the wind latch secured.

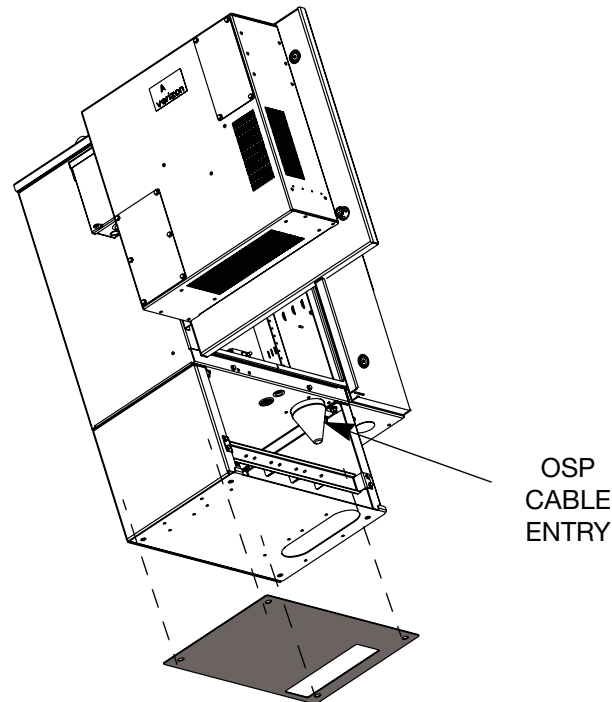


Fig. 6 : Gasket Placement

Step 8: Remove the cable cone from the cabinet floor by removing the 1/4" hardware. Remove and set the cable cone safely aside for later reattachment.

Step 9: If the cabinet will be equipped with cables from a remote location, remove the cable cone from the cable sleeves in the protection chamber. Set the cable cone safely aside for later reattachment.

4.4 Lifting the Cabinet



DANGER

Improper hoisting equipment and unsafe lifting procedures can result in serious injury or death.

- *Observe the following safety measures, as well as all local safety procedures, when performing the tasks in this section.*
- *Keep the equipment and the cabinet away from any power lines.*
- *Keep bystanders away from work operations at all times.*

- *Only specially trained operators shall be permitted to operate crane equipment for lifting and setting the cabinet.*
- *Operators should not suspend loads over people, nor should any person work, stand, or pass under a suspended load.*
- *Before lifting the cabinet, block off the area. Vehicles should not park within 25 feet (7.6 m) of the lifting circumference.*
- *All persons working with crane equipment shall wear standard safety gear according to local practices, including, but not limited to, safety helmets, steel-toed shoes, eye protection, and (when required) insulating gloves.*
- *Do not operate the crane until all stabilizers are extended and in firm contact with the ground or adequate support structure. Do not attempt to retract or extend the stabilizers while a load is suspended from the crane.*
- *When raising the crane from the stowed position, and while operating the crane, be alert for overhead obstructions that might interfere with movement of the crane. DO NOT ALLOW THE CABINET OR CRANE TO TOUCH ANY ELECTRICAL WIRING OR EQUIPMENT!*
- *If the cabinet is to be moved while it is attached to the pallet (such as in a turnkey staging area or temporary storage location), lift it with a forklift vehicle positioned at the long side of the pallet. The forklift must be rated at 5,000 lb. (2,268 kg) and have a minimum fork length of 50 inches (1270 mm). Do not lift the pallet and cabinet from the ends when using a forklift; lift from the sides of the pallet only.*

4.4.1 Required Equipment

- One derrick (crane) capable of lifting 5,000 lbs. (2,268 kg.).
- **Two**, 8-ft. long (minimum) (2.4 m) wire rope slings, each with 2,500 lbs. (1,134 kg) capacity should be used.
- Two connecting links to attach wire rope slings to the cabinet lifting ears.
- 0.63" (⁵/₈-in) (4 cm) diameter rope, approximately 75 feet (19 m) long to be used as a tagline.



WARNING

TAKE THE FOLLOWING SAFETY PRECAUTIONS TO PREVENT THE CABINET FROM FALLING:
DO NOT USE SLINGS OR CONNECTING LINKS OF INSUFFICIENT CAPACITY.
ONLY THE CRANE RIGGING CREW SHOULD SET UP THE CRANE AND RIGGING.
DO NOT EXCEED THE LIFTING CAPACITY OF THE CRANE.

Step 1: Insert the lifting cable sling connecting links securely through each of the two lifting ears (Fig. 7). To prevent the cabinet from tipping when the pallet brackets are removed, take up the slack with the crane. **DO NOT** tighten the cables so that the pallet lifts. The weight of the pallet will make it difficult to remove the bracket bolt.

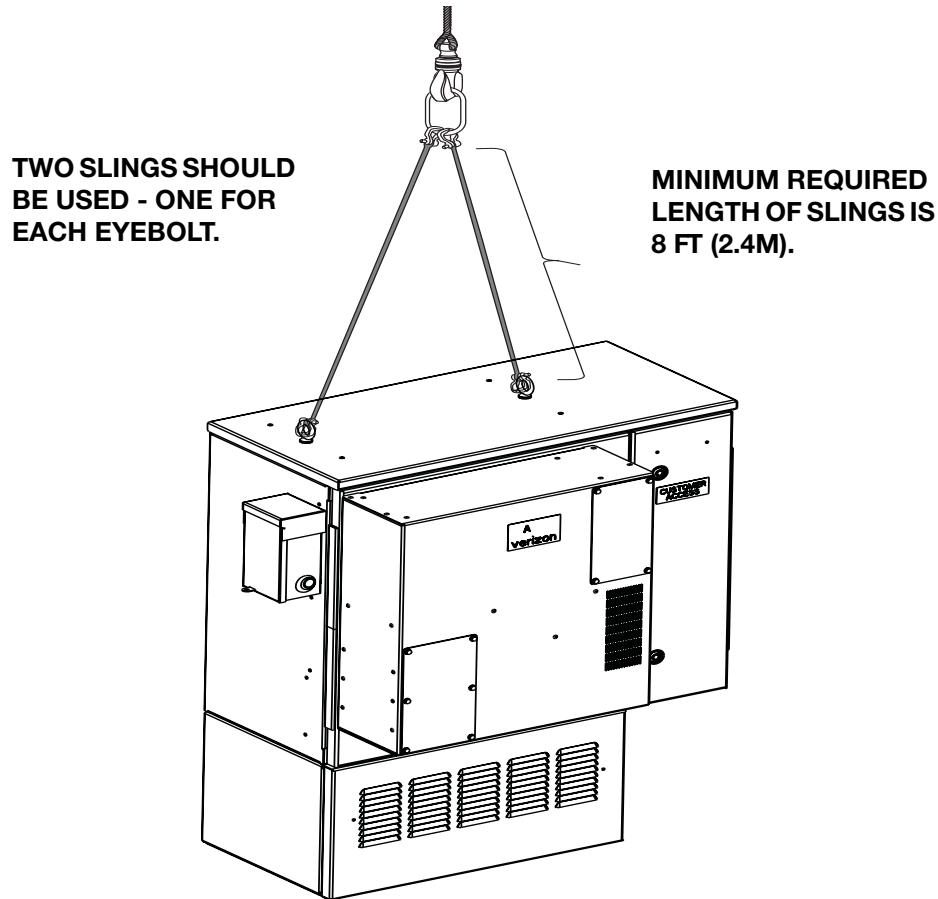


Fig. 7 : Lifting the Cabinet

Step 2: If installed, use a 216-type tool to remove the OSP cable side base panel of the battery chamber (Fig. 8).

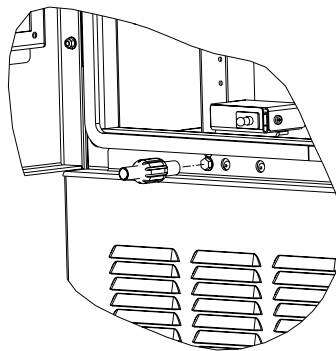


Fig. 8 : Removing Battery Chamber Base Panel

Step 3: Remove the bolts from the pallet mounting bracket, which secures the cabinet to the pallet.

5. PAD MOUNTING

5.0.1 Perform the following procedure to pad mount the MESA[®] SOLE cabinet.

Step 1: Refer to Section 5.1 , "Concrete Foundation Pad Construction," Page 14 for recommended concrete pad construction.

Step 2: Clean all litter from the foundation pad surface.

Step 3: Dress the cable/conduit so that it will easily enter the cabinet splice chamber as it is being lowered onto the foundation pad.

Step 4: Remove the anchor bolts and washers from the foundation pad. Set the hardware aside to attach the cabinet to the pad.

Note: The conduit has a turning locking nut and bushing already in place. The turning locking nut and bushing aid in aligning and securing the conduit to the junction box.

ALERT

During lifting, the cabinet must be lowered so that the cabinet is level and parallel to the pad surface. Place the cabinet so that it lines up with the anchor bolts. Make sure the cabinet is clear of the conduits in the foundation pad.

Step 5: Place the cabinet on the pad. Loosen the slings so that the full weight of the cabinet is on the pad. Check to be sure the cabinet is properly lined up on the pad.

Step 6: To secure the cabinet to the pad, install 0.5-13 ($\frac{1}{2}$ -13) bolts with washers and lock washers into the bottom flange. Tighten all bolts securely.

Step 7: When the cabinet is secured, remove the slings, the tagline, and the lifting eyebolts. Replace the eyebolts with the nylon hex-head bolts included in the cabinet loose parts package.

ALERT

If the cabinet will not be powered up for an extended period, place a heat source, such as two 150W light bulbs wired in parallel inside the cabinet to prevent condensation.

5.1 Concrete Foundation Pad Construction

WARNING

When pad mounting, the compression strength of the concrete pad used must be a minimum of 4000 psi as determined by ASTM C39 test of compression strength of concrete cylinders.

5.1.1 The MESA[®] SOLE cabinet can be installed on a concrete foundation pad, which is either cast-in-place or precast. Fig. 10 shows the recommended position of the optional cabinet pad template on a concrete pad.

5.1.2 Use concrete only for the foundation pad. Do not use substitute materials, such as reinforced plastics, since they lack the rigidity required for cabinet placement.

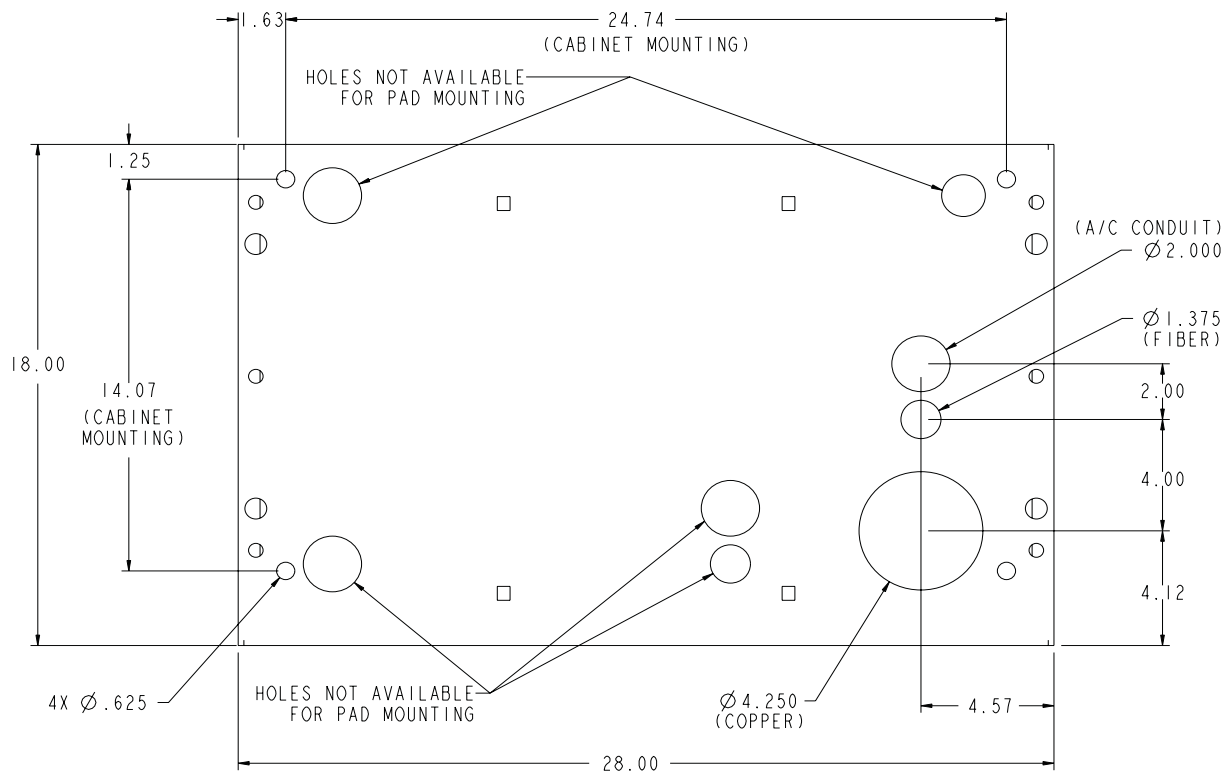


Fig. 9 : Concrete Pad Template Diagram

5.1.3 The recommended concrete pad size is two feet (60.96 cm) beyond the perimeter of the cabinet, including the radius of any open doors.

- Concrete pad dimensions: 48.00" x 35.31" (121.92 cm x 89.69 cm)

5.1.4 The overall dimensions of the pad mounting template: 28.00" x 18.00" (71.12 cm x 45.72 cm).

5.1.5 Use a minimum of six inches (15.24 cm) of sand or gravel as a base for the foundation pad. This will level the location to accept the pad.

Refer to Fig. 10 for the arrangement and size of the reinforcing mesh and the template in the form prior to pouring concrete.

Use a high-early strength concrete mix so the cabinet may be placed three days following concrete pouring. Coarse aggregate used in the concrete shall be graded from $\frac{3}{4}$ -inch (19 mm) to No. 4 only.

The compression strength of the concrete must be a minimum of 4000 psi as determined by ASTM C39 test of compression strength of concrete cylinders.

The slump of the concrete shall be 2 (50.8 mm) to 4 inches (101.6 mm) as determined using ASTM test method C143.

The arrangement of the reinforcing mesh and the template in the form prior to pouring concrete is shown in Fig. 10.

Square and level the template(s) on the stakes so the tops of the mounting plates are flush with, or no more than 0.25" ($\frac{1}{4}$ -in). (6 mm) above, the top of the pad (Fig. 11). Square the template(s) so the diagonal measurement between the anchor bolts is equal.

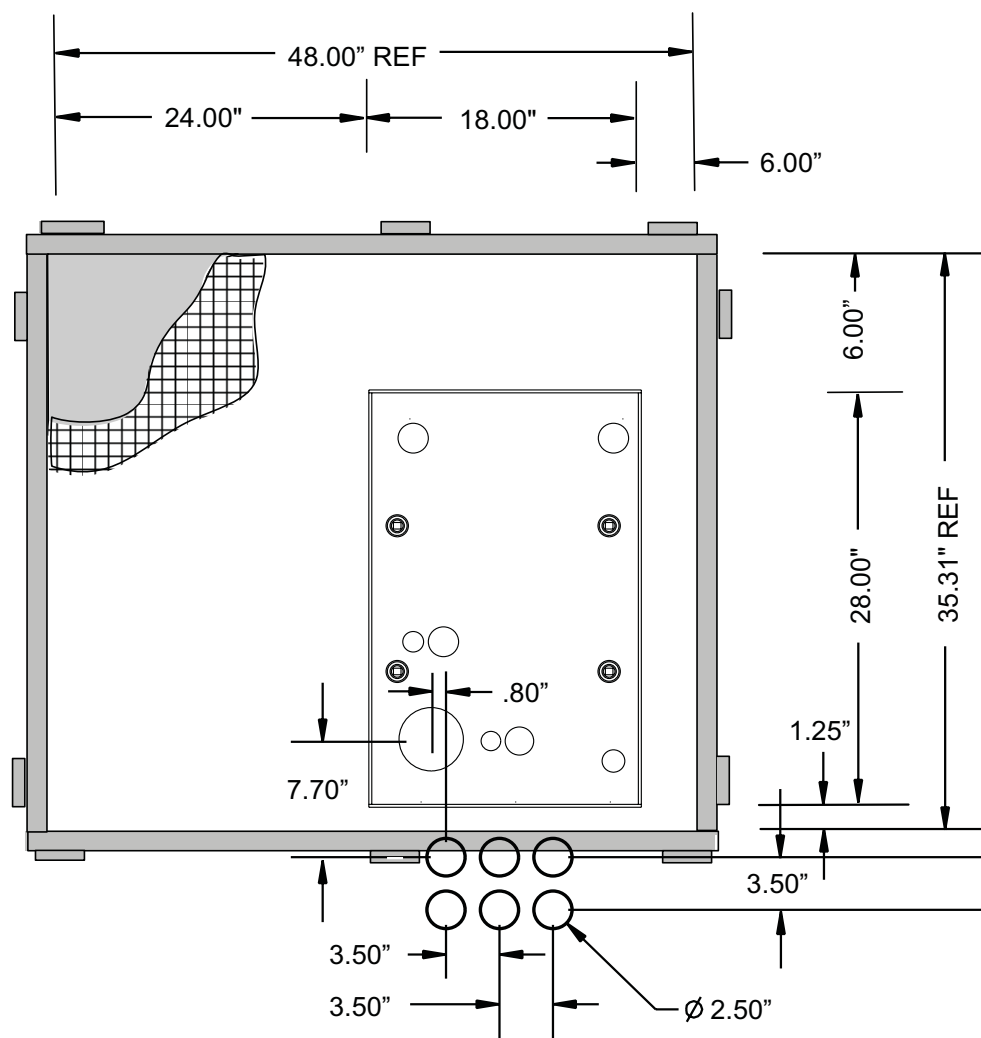


Fig. 10 : Foundation Pad Design with Customer Conduit Location

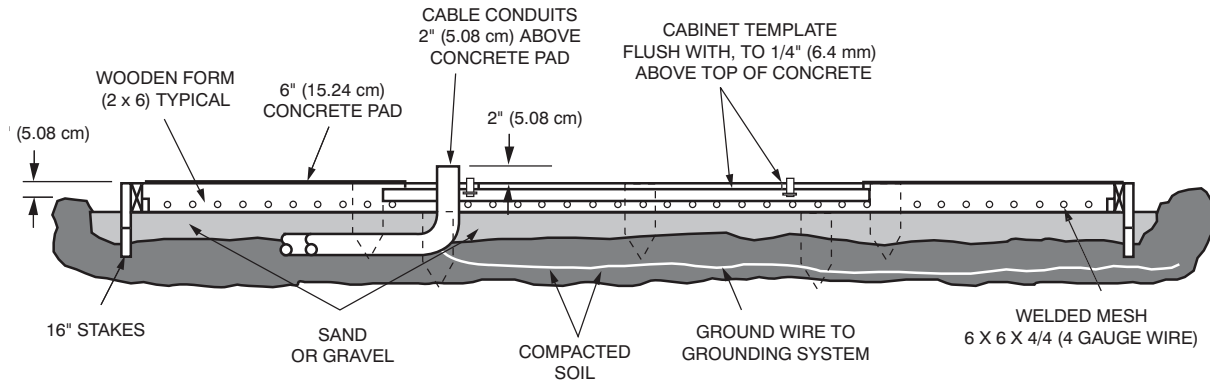


Fig. 11 : Position of Conduit in Template (typical view)

6. GROUNDING CONSIDERATIONS



ALERT

Grounding should be accomplished according to local practices and in accordance with the latest NEC codes.

7. OPTIONAL BATTERY CHAMBER

- 7.0.1 The battery chamber is designed to hold one 60 amp-hour string of 12Vdc front-post batteries. Four batteries make one string. The batteries are installed in the chamber in one row of four batteries.

Interior usable dimensions of the battery chamber are:

Height: 13.00" (33.02 cm)

Depth: 12.00" (30.48 cm)

Width: 20.00" (50.8 cm)

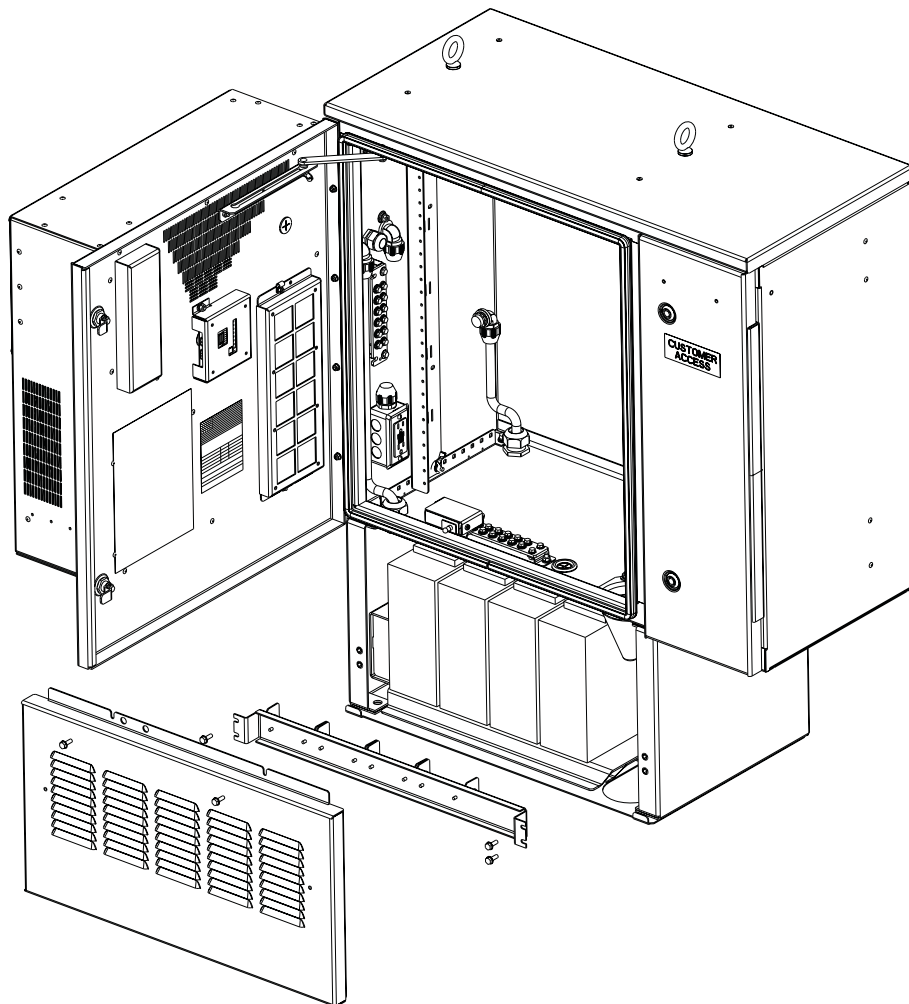


Fig. 12 : Optional Battery Chamber

8. HEAT EXCHANGER

8.0.1 The MESA[®] SOLE cabinet includes a door mounted heat exchanger which is capable of removing 650 Watts of heat at 65°.

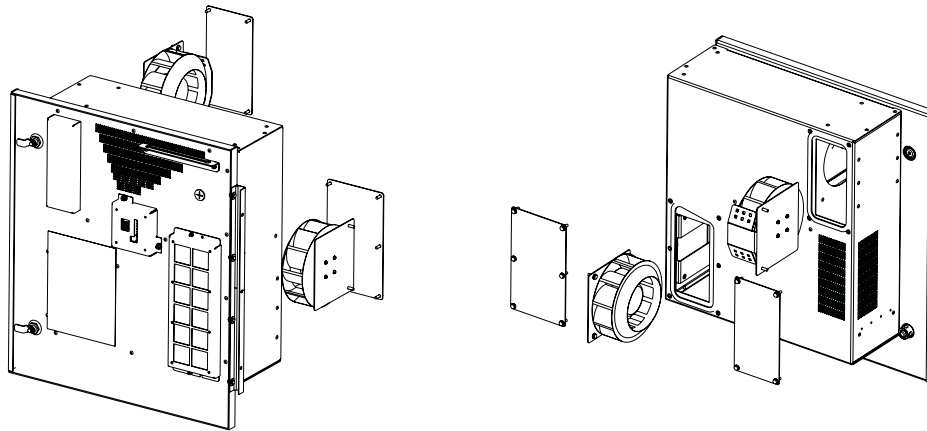


Fig. 13 : Door Mounted Heat Exchanger

8.1 Heat Exchanger Fans

8.1.1 The heat exchanger is a dual air chamber, vertical air flow device that keeps the temperature within the equipment manufacturer's recommendations. The exterior cooling air is never mixed with the air in the electronics chamber.

8.1.2 The heat exchanger is equipped with an internal and external fan that can run independently of each other. If one fan fails, the other will keep operating.

The external fan draws exterior air through the bottom of the cabinet and exhausts it out into the air chamber in the cabinet top.

The internal fan draws interior air in from the top of the electronics chamber and exhausts it out the bottom of the chamber.

8.2 Heat Exchanger Control

8.2.1 The MESA[®] SOLE heat exchanger system is managed by an Environmental Control Card (ECC).

8.2.2 Refer to the documentation supplied with the cabinet for installation and operational instructions for the ECC.

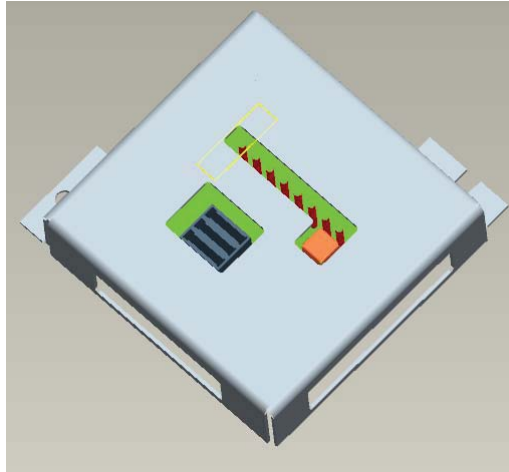


Fig. 14 : Environmental Control Card (ECC)

9. MAINTENANCE

9.1 Optional Battery Chamber Filter Screen Maintenance

Components:

- Filter screen (F1002729)

Step 1: Remove the #10 nuts securing the filter screen to the access panel (Fig. 15). Remove the filter screen. Set the nuts and access panel safely aside for later replacement.

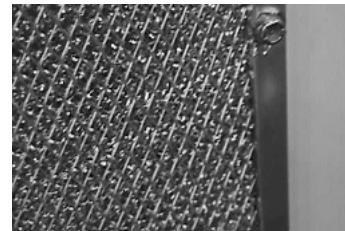
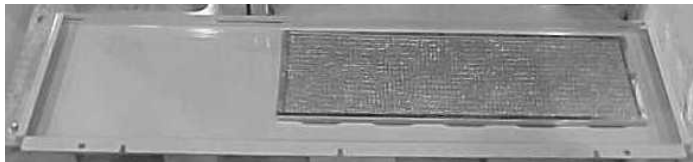


Fig. 15 : Filter Screen and Mounting Hardware

Step 2: If compressed air is available, use it to blow off dust and dirt from the filter screen.

Step 3: Prepare a solution of warm water and mild detergent (DO NOT USE SOLVENTS!). Gently scrub the filter screen with a soft brush. Set it safely aside to dry.

Step 4: When the filter screen is dry, replace it onto the access panel using the #10 nuts removed previously.

Step 5: Replace the access panel back onto the base module.

10. ACCESSORIES AND REPLACEMENT PARTS

10.0.1 Refer to Table A for a list of available features, accessories, and replacement parts.

10.0.2 Contact customer service at 800-800-1280 for information regarding replacement parts and/or accessories.

TABLE A - Accessories and Replacement Parts

Type	Part No.	Description
Cabinets	F1009260 (Standard)	MESA [®] SOLE cabinet with: <ul style="list-style-type: none">• battery compartment,• 650 watt heat exchanger door assembly,• Customer Access Module
	F1009261	MESA [®] SOLE cabinet with: <ul style="list-style-type: none">• no battery compartment,• 650 watt heat exchanger door assembly,• Customer Access Module
	F1009262	MESA [®] SOLE cabinet with: <ul style="list-style-type: none">• battery compartment,• 650 watt heat exchanger door assembly,• no Customer Access Module
	F1009263	MESA [®] SOLE cabinet with: <ul style="list-style-type: none">• no battery compartment,• 650 watt heat exchanger door assembly,• no Customer Access Module
Kits	F1009266	MESA [®] SOLE Concrete Pad Mounting Kit
	F1009265	MESA [®] SOLE Wall Mounting Kit
	F1009264	MESA [®] SOLE Pole Mounting Kit
	F1009378	MESA [®] SOLE ECU Replacement

NOTES:

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